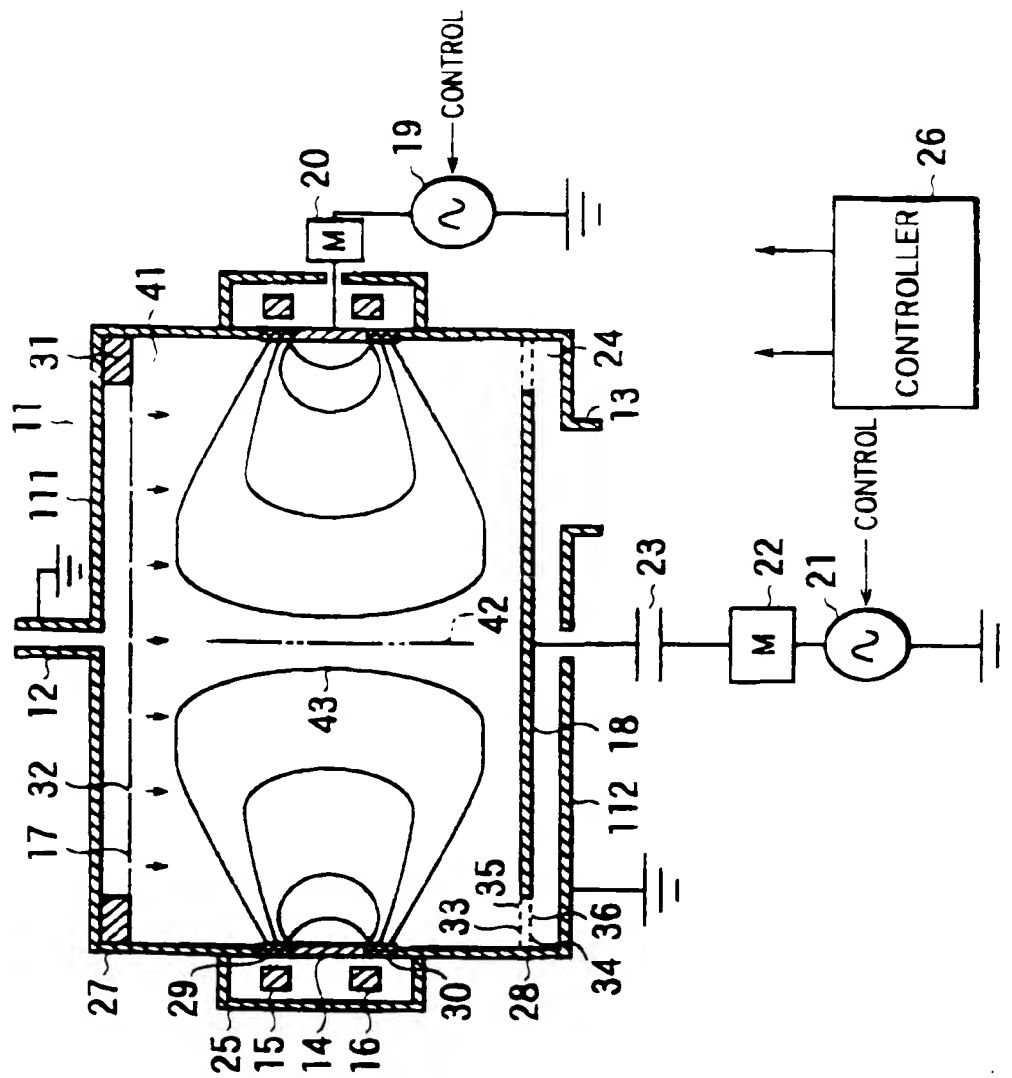


FIG. 1



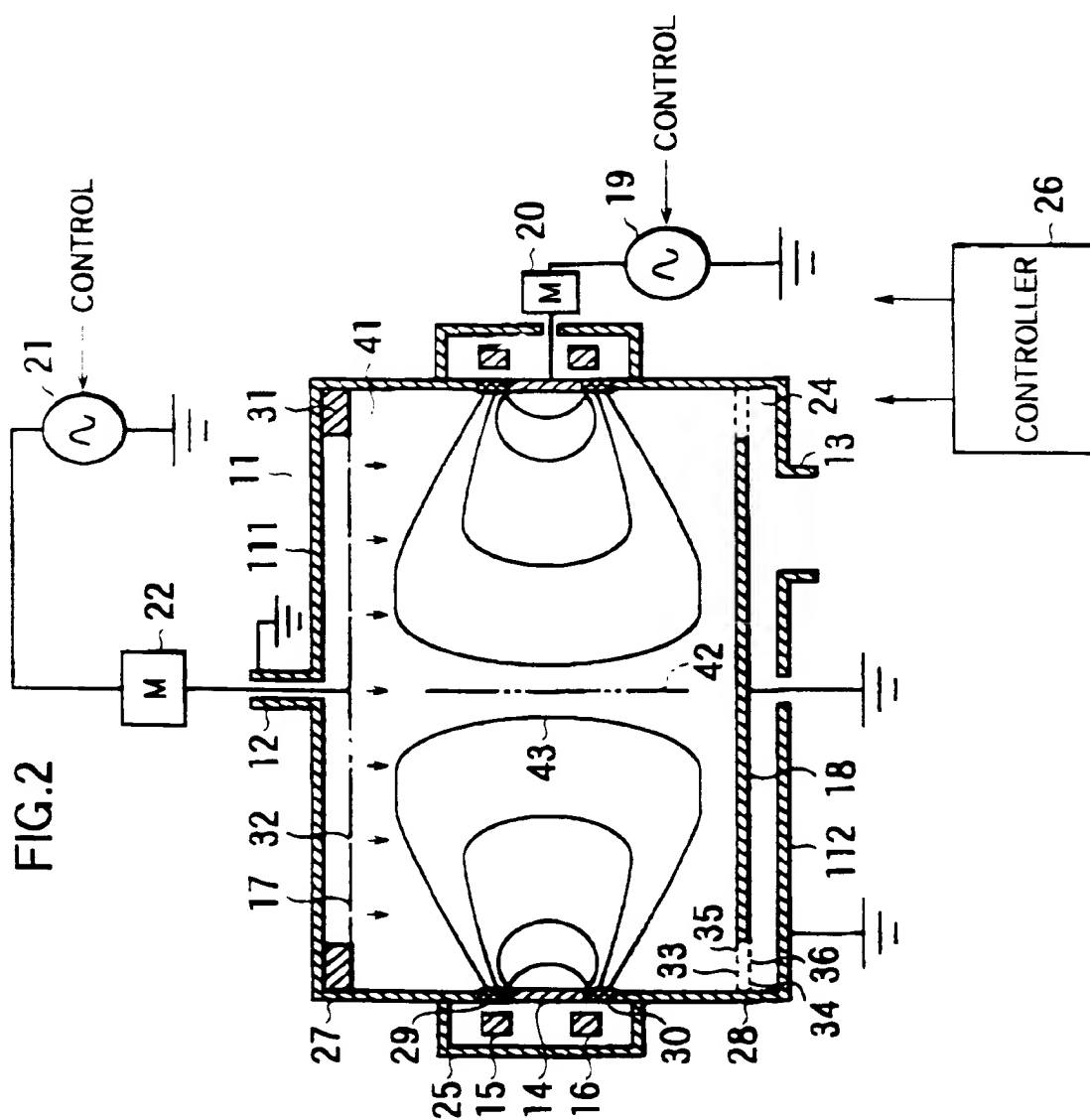


FIG.3

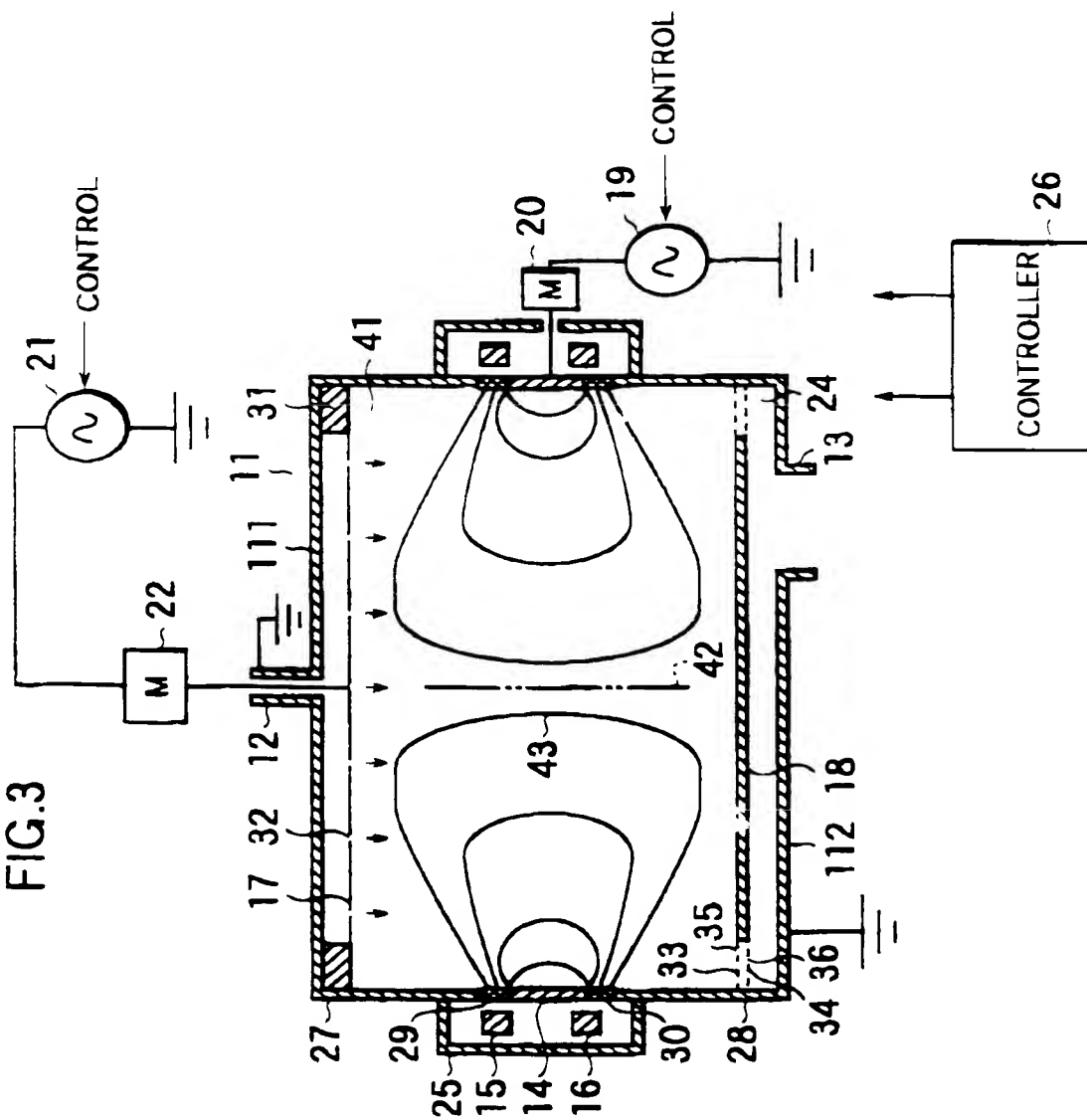
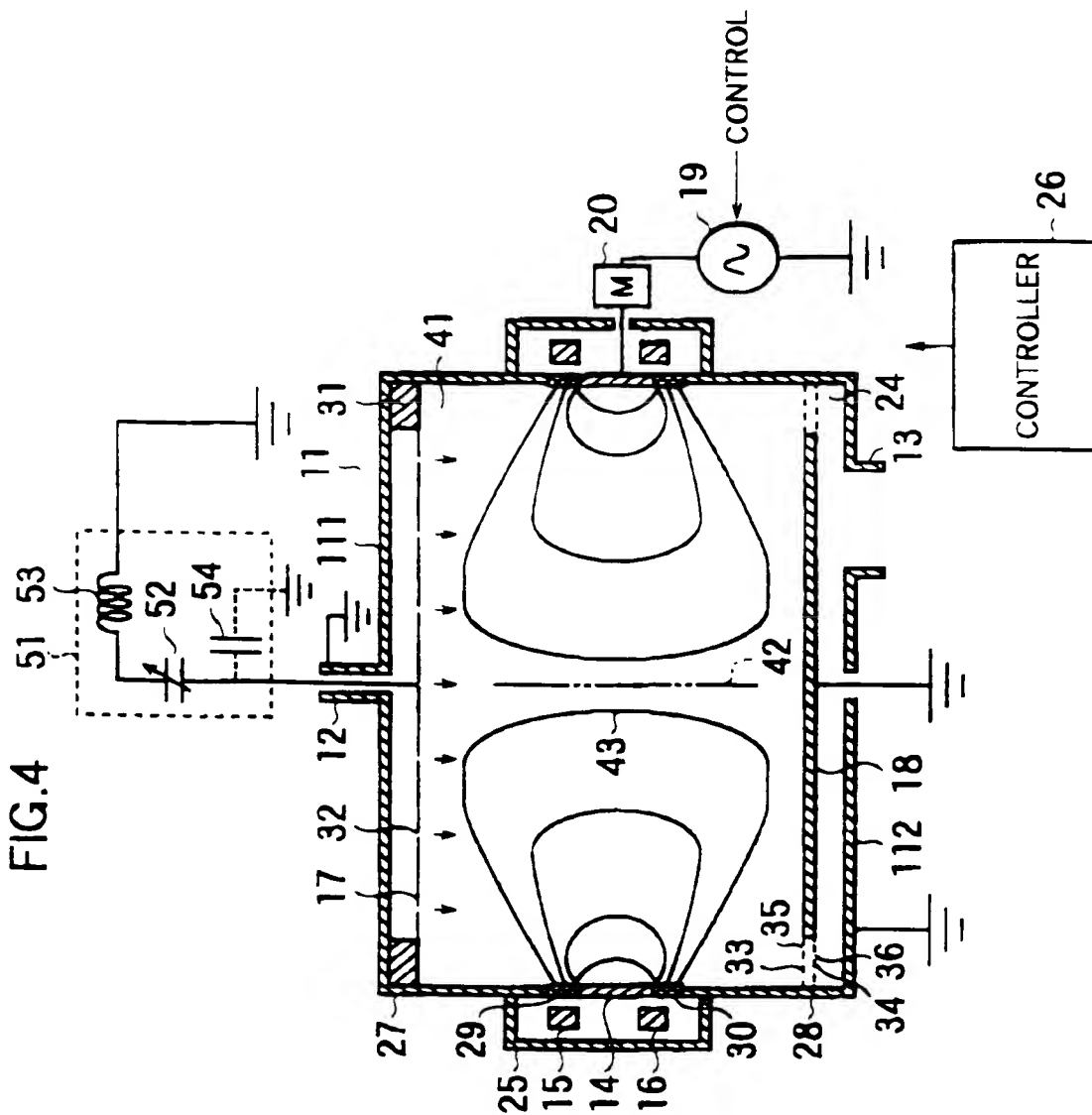


FIG. 4





A schematic diagram of a vacuum furnace. The furnace chamber is a rectangular box with a thick wall, labeled 11 and 111. The top wall is labeled 17 and 32, and the bottom wall is labeled 27. The left wall is labeled 12 and 31, and the right wall is labeled 13 and 24. The chamber is divided into two main sections by a vertical dashed line 42. The left section contains a magnetic field region 43, indicated by a large, rounded, shaded area. The right section contains a magnetic field region 41, also indicated by a large, rounded, shaded area. The magnetic field is generated by a coil 20, which is connected to a power source 19 labeled "CONTROL". The coil 20 is mounted on a base 28. The base 28 is connected to a ground symbol. The chamber is also connected to a ground symbol. The chamber is divided into two main sections by a vertical dashed line 42. The left section contains a magnetic field region 43, indicated by a large, rounded, shaded area. The right section contains a magnetic field region 41, also indicated by a large, rounded, shaded area. The magnetic field is generated by a coil 20, which is connected to a power source 19 labeled "CONTROL". The coil 20 is mounted on a base 28. The base 28 is connected to a ground symbol. The chamber is also connected to a ground symbol. The chamber is divided into two main sections by a vertical dashed line 42. The left section contains a magnetic field region 43, indicated by a large, rounded, shaded area. The right section contains a magnetic field region 41, also indicated by a large, rounded, shaded area. The magnetic field is generated by a coil 20, which is connected to a power source 19 labeled "CONTROL". The coil 20 is mounted on a base 28. The base 28 is connected to a ground symbol. The chamber is also connected to a ground symbol.



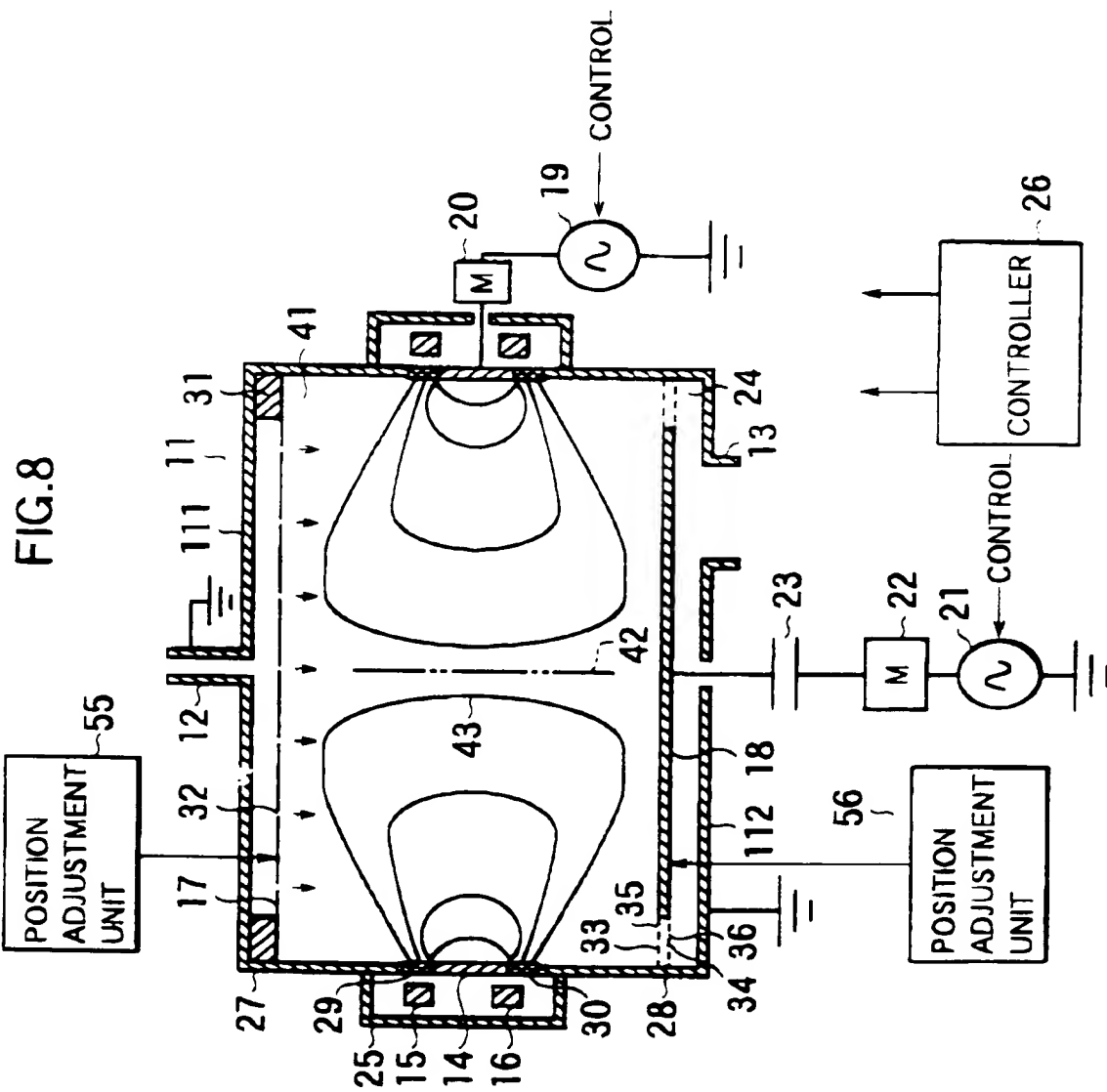




FIG.9

ITEM	APPARATUS	FIG.1	FIG.4	FIG.6	FIG.10
PLASM GENERATION EFFICIENCY (EFFECTING HIGHER PLASMA DENSITY)		⊙	○	Δ	Δ
PLASM DENSITY DISTRIBUTION CONTROLLABILITY (DIFFICULTY OF ACHIEVING UNIFORM DENSITY DISTRIBUTION)		⊙	○		
LARGER CALIBER APPARATUSES (ABILITY TO HANDLE LARGE-DIAMETER SUBSTRATES)		⊙	○	Δ	Δ
APPARATUS COST		○	⊙	⊙	⊙

